

CLAIMS

What is claimed is:

1 1. A method for converting display source code of an application on a server to
2 a network interactive web-browser page, said method comprising the steps of:

3 (a) resolving the display source code of the application into a plurality of
4 record formats;

5 (b) for each of the plurality of record formats, resolving a plurality of
6 references within the record format to database files;

7 (c) determining the hierarchy and relationships of the plurality of
8 references;

9 (d) parsing the plurality of references to a web-language file using nested
10 tags to capture the hierarchy and relationship of the plurality of references to create network
11 user interface pages; and

12 (e) converting the network user interface pages to an object-oriented
13 platform-independent network language by:

14 (i) creating dynamic components for input, output, and feedback
15 references; and

16 (ii) creating a static component for unchanging references of each
17 record format.

1 2. The method of claim 1, wherein the network interactive web-browser page is
2 displayed on the Internet.

1 3. The method of claim 1, wherein the network interactive web-browser page is
2 displayed on a network selected from the group consisting of: an internal network, an
3 Intranet, a LAN, a WAN, an internal bus, a wireless network.

1 4. The method of claim 1, wherein the web-language file is an XML language
2 file.

1 5. The method of claim 4, wherein the XML language file is an HTML file.

1 6. The method of claim 4, wherein the XML language file is a WML file.

1 7. The method of claim 1, wherein the static component further comprises a
2 JavaServer Page.

1 8. The method of claim 1, wherein the dynamic components further comprise
2 JavaBeans.

1 9. The method of claim 2, wherein the network user interface pages are stored
2 on the server.

1 10. A computer readable medium containing program instructions for creating
2 web interfaces of an application stored on a computer, said program instructions for:

3 (a) parsing display file data description source of the application to render

4 the source into a plurality of network user interface pages, each network user interface page
5 to display a record format of the application;

6 (b) converting the network user interface page, wherein at least one data
7 object maintains the application's input, output, feedback data on a client and at least one
8 web-browser page maintains the application's static content ;

9 (c) dynamically updating the web-browser page with the application's
10 input, output, feedback data via a servlet instance; and

11 (d) displaying the web-browser page on a client via a network.

1 11. A computer readable medium containing program instructions for use in a
2 computer network, said computer readable medium containing program instructions for:

3 (a) providing a plurality of network user interface pages of format records of
4 display source code of a application; the network user interface pages to receive data from
5 the application and in response thereto; and

6 (b) converting the network user interface pages to web-browser pages, a static
7 portion of which displays the static portion of the format record and a dynamic portion of
8 which interacts with the web-browser page to display input, output, feedback data required
9 by/from/of the application.

1 12. A computer system for executing an application, comprising:

2 a central processing unit;

3 a main memory connected to the central processing unit with a
4 communication bus;

5 a data storage unit connected to a data storage interface which is connected to
6 said communication bus;

7 at least one input/output device connected to said communication bus and
8 connected to a network interface to an external computer network,

9 an application stored in said main memory and capable of executing on said
10 central processing unit; and

11 a plurality of intermediate network user interface pages, each of which
12 correspond to a record format of the application;

13 wherein as the application executes, the application logic may use either a traditional
14 display of the record format or the plurality of intermediate network user interfaces pages for
15 communication of the application to a user over the external computer network.

1 13. A computer server for converting the display source of an application stored
2 and executing on a computer, comprising:

3 a central processing unit;

4 a parser to parse the display source into a plurality of record formats; each of
5 the record formats unique to each input/output screen definition of the application;

6 a generator of web-language user interface files having nested tags of each of
7 the record formats; and

8 a converter of web-language user interface files, the converter further
9 comprising:

10 an object creator to create dynamic components for the dynamic
11 portions of the display source; and

12 a static component for display of the unchanging aspects of the record

13 formats.

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